

Model 2816 Axial Torsion Load Cell

Why the Interface model 2816 Axial Torsion Load Cell is the best in class:

- Measures load and torque
- Minimal crosstalk
- Extraneous load resistance
- Fatigue rated



DIMENSIONS

See Drawing	MODEL 2816	
	CAPACITY (lbf)/(inch-lb)	
	3.3K/2K, 5K/3K, 10K/6K, 15K/7.5K	
	inch	mm
①	1.75	44.6
②	5.12	130
③	6.06	154
④	PT02E-10-6P	
⑤	2.41	61.2
⑥	3.49	88.8
⑦	ø.406	10.3
⑧	15°	
⑨	ø 0.414 (10.5) thru, C'Sink ø 0.460 (11.7)	
⑩	ø 0.307 (7.80) thru, C'Bore ø 0.3155-.3166 (8.014-8.042) ‡ 0.39 (10.0) This side only	
⑪	1.772	45
⑫	1.62	41.1
⑬	0.015	0.38
⑭	ø 5.86	148.8
⑮	ø 4.30	109.2
⑯	ø 4.01	101.9
⑰	Label	

SPECIFICATIONS

ACCURACY	Axial Bridge A	Torsion Bridge B
Nonlinearity-% FS	±0.05	±0.07
Hysteresis-% FS	±0.05	±0.05
Nonrepeatability-% RO	±0.02	±0.05
Creep, in 20 min-%	±0.025	±0.025

TEMPERATURE	Axial Bridge A	Torsion Bridge B
Compensated Range-°F	15 to 115	15 to 115
Compensated Range-°C	-10 to 45	-10 to 45
Operating Range-°F	-65 to 200	-65 to 200
Operating Range-°C	-55 to 90	-55 to 90
Effect on Output-%/100°F - MAX	±0.08	±0.08
Effect on Zero-% RO/100°F - MAX	±0.15	±0.15

ELECTRICAL	Axial Bridge A	Torsion Bridge B
Rated Output-mV/V	+2.0 ±0.3 / -2.0 ±0.3	
Zero Balance-% RO - MAX	±2.0	±2.0
Input Resistance-Ohms	350±3.5	700±7
Output Resistance-Ohms	350±3.5	700±7
Excitation Voltage - VDC MAX	20	20

MECHANICAL	Axial Bridge A	Torsion Bridge B
Calibration	T&C	CW & CCW
Safe Overload-% CAP - MAX	±200	±200
Ultimate Overload-% CAP - MAX	±400	±400

